

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A laser apparatus comprising:
an optical system for sampling a part of a laser beam emitted from an oscillator;
a sensor for generating an electric signal including fluctuation in energy of the laser beam as a data from the part of the laser beam;
a means for performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam, and controlling a relative speed of ~~[[an]]~~ a beam spot of the laser beam to an object ~~in order to change~~ so as to be in phase with the fluctuation in energy of the laser beam.

2. (Currently Amended) A laser apparatus comprising:
an optical system for sampling a part of a laser beam emitted from an oscillator;
a sensor for generating an electric signal including fluctuation in energy of the laser beam as a data from the part of the laser beam;
a means for performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam, and controlling a position of an object ~~in order to change~~ so that a relative speed of ~~[[an]]~~ a beam spot of the laser beam to the object is in phase with the fluctuation in energy of the laser beam.

3. (Currently Amended) A laser apparatus comprising:
an optical system for sampling a part of a laser beam emitted from an oscillator;
a sensor for generating an electric signal including fluctuation in energy of the laser beam as a data from the part of the laser beam;
a means for performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam, and controlling a position of a beam spot of the laser beam ~~in order to change~~ so that a relative speed of the beam spot to an object is in phase with the fluctuation in energy of the laser beam,
wherein a position of the object is fixed.

4. (Currently Amended) A laser irradiation method comprising:
sampling a part of a laser beam emitted from an oscillator;
generating an electric signal including fluctuation in energy of the laser beam as data;
performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam; and
controlling a relative speed of ~~[[an]]~~ a beam spot of the laser beam to an object ~~in order to change~~ so as to be in phase with the fluctuation in energy of the laser beam.

5. (Currently Amended) A laser irradiation method comprising of:
sampling a part of a laser beam emitted from an oscillator;
generating an electric signal including fluctuation in energy of the laser beam as data;
performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam; and
controlling a position of an object ~~in order to~~ so that a relative speed of ~~[[an]]~~ a beam spot of the laser beam to the object ~~is~~ is in phase with the fluctuation in energy of the laser beam.

6. (Currently Amended) A laser irradiation method comprising:
sampling a part of a laser beam emitted from an oscillator;
generating an electric signal including fluctuation in energy of the laser beam as data;
performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam; and
controlling a position of a beam spot of the laser beam ~~in order to change~~ so that a relative speed of the beam spot to an object ~~is~~ is in phase with the fluctuation in energy of the laser beam, ~~[[.]]~~
wherein a position of the object is fixed.

7. (Currently Amended) A method of manufacturing a semiconductor device,

comprising:

sampling a part of a laser beam emitted from an oscillator;
generating an electric signal including fluctuation in energy of the laser beam as data from the part of the laser beam;
performing signal processing to the ~~electrical~~ electric signal to grasp a state of the fluctuation in energy of the laser beam; and
controlling a relative speed of ~~[[an]]~~ a beam spot of the laser beam to a semiconductor film ~~in order to change~~ so as to be in phase with the fluctuation in energy of the laser beam,
~~irradiating the laser beam to the semiconductor film to enhance crystallinity of the semiconductor film~~ crystallizing the semiconductor film by irradiation of the laser beam.

8. (Currently Amended) A method of manufacturing a semiconductor device, comprising:

sampling a part of a laser beam emitted from an oscillator;
generating an electric signal including fluctuation in energy of the laser beam as data from the part of the laser beam;
performing signal processing to the ~~electrical~~ electric signal to calculate a frequency, an amplitude, and a phase of the fluctuation in energy of the laser beam;
controlling a relative speed of ~~[[an]]~~ a beam spot of the laser beam to a semiconductor film with a phase of a signal in synchronization with oscillation of the laser beam emitted from the oscillator, a phase difference between the calculated phase and the phase of the signal, a ratio of energy of the part of the laser beam to the laser beam emitted from the oscillator, the calculated frequency, and the calculated amplitude ~~in order to change~~ so as to be in phase with the fluctuation in energy of the laser beam; and
~~irradiating the laser beam to the semiconductor film to enhance crystallinity of the semiconductor film~~ crystallizing the semiconductor film by irradiation of the laser beam.

9. (Currently Amended) A laser irradiation method comprising a step of controlling a relative speed of a beam spot of a laser beam to an object ~~in order to change~~ so as to be in phase with fluctuation in energy of the laser beam.

10. (Currently Amended) A laser irradiation method comprising a step of controlling a relative speed of a beam spot of a laser beam to an object so that at least a frequency and an amplitude of fluctuation in energy of the laser beam ~~in order to change~~ are in phase with the fluctuation in energy of the laser beam.

11. (New) The laser irradiation method according to claim 4, wherein the signal processing is Fast Fourier transformation.

12. (New) The laser irradiation method according to claim 5, wherein the signal processing is Fast Fourier transformation.

13. (New) The laser irradiation method according to claim 6, wherein the signal processing is Fast Fourier transformation.

14. (New) The method of manufacturing a semiconductor device according to claim 7, wherein the signal processing is Fast Fourier transformation.

15. (New) The method of manufacturing a semiconductor device according to claim 8, wherein the signal processing is Fast Fourier transformation.